VACUUM DEPOSITION OF DIELECTRIC COATINGS ON VOLATILE MATERIAL

ABSTRACT OF THE DISCLOSURE

In order to allow application of any coating under a vacuum over a volatile gelatinous layer, such as polymer dispersed liquid crystal (PDLC) on an optical glass substrate with a transparent electrode, such as indium tin oxide (ITO) on its surface, a layer of an intermediate stress absorbing polymeric material is first applied to cover the volatile gelatinous layer to prevent evaporation and escape of volatiles, thereafter the coating is applied under a very high vacuum using for example a technique called Physical Vapor Deposition (PVD) or sputtering.

Figure 2

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